STRUCTURAL GENERAL NOTES

GENERAL REQUIREMENTS

DEFERRED SUBMITTALS

SCHEDULE OF SPECIAL INSPECTIONS

CONCRETE REINFORCEMENT

DESIGN CRITERIA

SOILS AND FOUNDATIONS

CAST-IN-PLACE CONCRETE

POST-INSTALLED ANCHORS (INTO CONCRETE AND MASONRY)

COMPONENTS AND CLADDING PRESSURES (PSF)

SPECIFICATIONS:

EARTHQUAKE

REFERENCE STANDARDS

SPECIAL INSPECTIONS AND TESTING

CONCRETE SPECIFICATIONS

STRENGTH

SOIL AND FOUNDATION COMPONENTS

PLANNED

2. FOR THE PURPOSES OF THIS CONTRACT, THE WEATHERED SLOPE DESIGN IS DEFINED TO BE THE FORECASTED WEATHERED SLOPE DESIGN CONFORMING TO THE SUSTAINABLE EARTHWORK DESIGN (SED) APPROVED CONCEPT.

STRUCTURAL STEEL

STANDARD PRACTICE

WELDING

H = MEAN ROOF HEIGHT = 16.17 FT.

SPECIAL INSPECTORS:

INSPECTIONS

VERIFICATION OF ALL WELDED JOINTS PER AWS D1.1 TABLE 6.1 X

INSPECTIONS SECTION. ANCHOR TYPE DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS.

PLAN CHECKS FOR ALL SUBMITTALS (WITH THE EXCEPTION OF SHOP DRAWINGS) ARE REQUIRED PRIOR TO SUBMISSION.

Software Reads the PDF file and creates a text-based representation of its content. It is then processed to organize and format it as requested.
QUALITY ASSURANCE:

- BRICK VENEER ANCHORS, TIES, AND CONNECTORS SHALL BE AS SPECIFIED ON STRUCTURAL DRAWINGS. CONSULT REFERENCE STANDARDS:

1. MASONRY UNITS: A LETTER OF CERTIFICATION FROM THE MANUFACTURER OF THE UNITS SHALL BE PROVIDED TO THE SERVING ARCHITECT.

2. MATERIAL CERTIFICATES FOR ALL STEEL REINFORCING ANCHORS, TIES AND METAL ACCESSORIES CERTIFYING COMPLIANCE WITH REQUIRED STRENGTH GRADE AND ASTM STANDARDS.

3. BRICK INDUSTRY ASSOCIATION (BIA) "TECHNICAL NOTES"

4. MASONRY CONTROL AND EXPANSION JOINTS:
   - JOINTS AT WALL JOG LOCATIONS:
     - PLACE EXPANSION JOINTS AT THE OFFSET ON THE INSIDE OR PLACE ADDITIONAL EXPANSION JOINTS HALFWAY BETWEEN FULL-HEIGHT EXPANSION JOINTS.
   - THE TWO INTERSECTING WALLS:
     - AT WALL JOG LOCATIONS
     - PLACING ANCHORS WITHIN 12" OF OPENING
   - BRICK VENEER SHALL BE DESIGNED AND DETAILED BY THE ARCHITECT/CONTRACTOR AND CONFORM TO ASTM C270, TYPE S OR N, AND IBC SECTION 2103.2 "MORTAR".

5. FOR THE STABILITY AND SAFE INSTALLATION OF ALL MEMBERS DURING CONSTRUCTION. THE CONTRACTOR/INSTALLER SHALL BE RESPONSIBLE IN FOLLOWING THE STABILITY GUIDELINES DURING JOIST INSTALLATION.

6. STEEL STUD

7. COLD FORMED STEEL FRAMING NOTES

8. IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE FOR A SAFE AND EFFICIENT METHOD OF INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

EXISTING BUILDING - CLASSIFICATION OF WORK

1. EXISTING FRAMING MEMBERS SHOWN ON THESE DRAWINGS ARE DESIGNATED BASED ON VISUAL OBSERVATIONS OF EXISTING WALLS, COLUMNS, BRACES, AND OTHER BUILDING ELEMENTS TO REMAIN FROM FALLING DEBRIS. ANY DAMAGE TO EXISTING CONSTRUCTION IS SHOWN WITH SOLID GREYED LINES. EXISTING CONSTRUCTION IS SHOWN WITH SOLID GREYED LINES. WHERE WORK IS CLASSIFIED AS AN ADDITION AS DEFINED IN CHAPTER 2 WHERE THE ACTIVITY IS CLASSIFIED AS A CHANGE OF OCCUPANCY AS DEFINED IN CHAPTER 2 OR INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

COLD FORMED STEEL FRAMING NOTES

S: STUD OR JOIST SECTION

i.e. 54 x 1/1000"

W: WALL SLIDE CLIP W/ (3) SHREWDS

ADDITIONAL BRIDGING

54 x 1/1000"

i.e. 808 x 1/100"

S: STUD OR JOIST SECTION

i.e. 600 x 1/100"

W: WALL SLIDE CLIP W/ (3) SHREWDS

ADDITIONAL BRIDGING

808 x 1/100"

COLD FORMED STEEL FRAMING NOTES

FOR THE STABILITY AND SAFE INSTALLATION OF ALL MEMBERS DURING CONSTRUCTION. THE CONTRACTOR/INSTALLER SHALL BE RESPONSIBLE IN FOLLOWING THE STABILITY GUIDELINES DURING JOIST INSTALLATION.

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ADDITIONAL BRIDGING

808 x 1/100"
**PLAN LOADING LEGEND**

- **Roof Dead Load**: 20 PSF
- **Roof Live / Snow Load**: 20 / 30 PSF
- **Snow Drift Surcharge**: (in addition to snow load)
- **Floor Storage Dead Load**: 45 PSF
- **Floor Storage Live Load**: 125 PSF
- **Wind Uplift Load**: (per plan)

**SNOW SURCHARGE LOADING**

**NOTES:**
1. Ref. to load sheet imposed loadings, drift width, etc.

**NET UPLIFT DIAGRAM**

**NOTE:**
1. Net uplift loads are based on ASD load combination: 0.6W + 0.6D
FOOTING PLAN

CONTOUS FOOTING SCHEDULE

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CONTINUOUS FOOTING SCHEDULE

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MIN. REQUIREMENTS FOR ANCHOR BOLTS IN CONCRETE

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SOILS PREPARATION AND SLAB BASE

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GENERAL NOTES

SLAB BASE

FOLLOW ALL THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. USE SIMPSON HECK HEAD BOLTS PER THE PLANS. EMBED 3" DEEP. USE 11" LONG BOLTS FOR 1/2" BOLTS. 9" LONG BOLTS FOR 3/4" BOLTS. 7" LONG BOLTS FOR 1" BOLTS.

ANCHORS AND DEPTHS APPLY TO CONCRETE INSTALLATION ONLY AND MAY NOT BE USED IN CMU.

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### FOUNDATION PLAN NOTES:

1. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING ITEMS PRIOR TO POURING THE CONCRETE:
   - BOTTOM OF FOOTING (BOF) ELEVATION AT PERIMETER COLUMNS SHALL MATCH ADJACENT CONTINUOUS FOOTING DEPTH.
   - BOTTOM OF FOOTING (BOF) ELEVATION AT CENTERLINE OF STEEL COLUMNS.
   - TOP OF SLAB ELEVATION AT CENTERLINE OF STEEL COLUMNS.
   - CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING ITEMS PRIOR TO CONSTRUCTION:
     - FOUNDATION DEPTH.
     - FOOTING MARKS.

2. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING ITEMS PRIOR TO CONSTRUCTION:
   - OWNER SUPPLIED ITEMS.
   - CONCRETE CURBS.
   - BLOCKOUTS AND CHASES.
   - DRAINS, STEPS, AND SLOPES.
   - DOOR OPENINGS.
   - NAIL VENTS.
   - WINDOW HOLLOW.
   - ELECTRICAL BOXES.
   - EXTERIOR WALL ELEVATIONS.
   - TYPICAL CONCRETE FOOTING WIDTH SHALL BE 2' 0".
   - BOTTOM OF FOUNDATION (BOF) SHALL BE 30" BELOW FINAL FINISHED GRADE OR FLATWORK AS STATED ON THE ARCHITECTURAL AND CIVIL PLANS.

3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING ITEMS PRIOR TO POURING THE CONCRETE:
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VAULT ROOF - CONCRETE OVER STEEL DECK

MATERIALS
DECK TYPE: VULCRAFT 22 GA. 2VLI DECK
FINISH: METAL DECK
SUPPORT ATTACHMENT: CONCRETE
ATTACHMENT PATTERN: 36/4, 18" O.C AT PERIMETER
SIDE LAP FASTENERS: #10 TEK SCREWS AT 12" O.C. MAX

DECK TYPE:
FINISH:
SUPPORT ATTACHMENT:
ATTACHMENT PATTERN:
SIDE LAP FASTENERS:

CONCRETE
DECK TYPE:
FINISH:
SUPPORT ATTACHMENT:
ATTACHMENT PATTERN:
SIDE LAP FASTENERS:

NOTES:
1. DECK SHALL BE MANUFACTURED BY VULCRAFT OR AN APPROVED EQUIVALENT.
2. ANY FASTENER SUBSTITUTIONS SHALL BE APPROVED BY E.O.R.
3. DECK SHALL BE Installed by a Subcontractor of an Approved Equivalent.
4. DECK FASTENERS MUST BE VULCRAFT OR AN APPROVED EQUIVALENT.
5. DECK FASTENERS MUST BE #10 TEK SCREWS AT 12" O.C. MAX.

CONCRETE TYPE: F'c = 4000 PSI NORMAL WEIGHT
DEPTH:
REINFORCING: 6x6 W1.4 x W1.4 WWF LAPPED 6" MIN MID-DEPTH OF SLAB
HILTI X-EDN 19 THQ12 AT PATTERN BELOW

VAULT ROOF - CONCRETE OVER STEEL DECK

VAULT CEILING PLAN
Scale: 3/8" = 1'-0"
### Minimum Lap Splice Lengths (in inches) for:

**Longitudinal Bar Size**

**Compression Development Lengths per f’c**

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<th>No.</th>
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<th>No. 3 (M #10)</th>
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**Compression Lap Splice Length**

- f’c = 3,000 PSI
- No. 3 (M #10)
- No. 4 (M #13)
- No. 5 (M #16)
- No. 6 (M #19)
- No. 7 (M #22)
- No. 8 (M #25)
- No. 9 (M #29)

**Notes:**

1. All dimensions shown are in inches.
2. If bar is confined by ties per Table 25.4.9.3 of ACI 318-14, multiply lap length by 0.75.
3. If concrete is lightweight, multiply lap length by 0.75.

---

**2015 IBC Compression Lap Splice Lengths, Ref. ACI 318-14, Section 25.4.9**

- Reinforcement in center of wall
- f’c = 4,000 PSI
- f’c = 5,000 PSI

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Note 1:
- All dimensions shown are in inches
- Top bars are defined as horizontal bars placed with more than 12" of fresh concrete below them. All other bars are non-top bars.
- Lap lengths in tables above are based on clear C over being greater than 1.0db (bar diameters) and min. clear spacing between bars being greater than 2.0db.

Note 2:
- If bar is epoxy coated, multiply lap length by 1.5.
- If concrete is lightweight, multiply lap length by 0.75.
**Cold Formed Steel Details**

**Cold Formed Steel Studs (Interior Non-Bearing)**

<table>
<thead>
<tr>
<th>Stud Type</th>
<th>Stud Size</th>
<th>Stud Count</th>
<th>Flange Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>16'-1&quot; to 20'-0&quot;</td>
<td>20'-1&quot; to 24'-0&quot;</td>
<td>24'-1&quot; to 28'-0&quot;</td>
<td>20'-1&quot; &amp; GREATER</td>
</tr>
</tbody>
</table>

1. **Headers and Jams** have been sized to resist a lateral horizontal load of 5 PSF per IBC section 1607.14 with a limiting deflection of L/240 per IBC Table 1604.3.

2. **Notes:**
   - SCREWED OPTION A (PLAN)
   - CONCRETE SHALL REACH A COMPRESSIVE STRENGTH OF 2,500 PSI PRIOR TO INSTALLATION OF BOTTOM TRACK USING P.A.F. INSTALLED PER ESR.
   - INTERIOR COLD FORMED WALL BOTTOM TRACK SHALL BE POST INSTALLED TO CONCRETE SLAB USING HILTI X.
   - COLD FORMED BOTTOM TRACKS SHALL HAVE MINIMUM 2" LONG FLANGES AND MATCH GAUGE OF WALL STUDS.
   - INSTALL ALL COLD FORMED STEEL NON-STEEL STUD DESIGNATION INDICATES MINIMUM STUD SIZE AND SPACING.
   - REFERENCE ARCHITECTURAL WALL TYPES FOR REQUIRED WALL WIDTHS, HEIGHTS, AND LOCATIONS. STUDS HAVE BEEN Sized TO RESIST A LATERAL HORIZONTAL LOAD OF 5 PSF PER IBC SECTION 1607.14 WITH A LIMITING DefLECTION OF L/240.

3. **Splice Locations**:
   - (6) #10 SCREWED (SSMA DESIGNATION)
   - (6) 16 SCREWS (3) EACH END
   - 12" O.C. (2) 600S162-54 (2) 600S162-33
   - 16" O.C. (2) 600S200-68 (2) 600S162-43
   - 24" O.C. (2) 362S300-97 (2) 362S200-97
   - 36" O.C. (2) 362S250-97 (2) 362S200-97
   - 48" O.C. (2) 362S350-118 (2) 362S250-97
   - 60" O.C. (2) 362S400-118 (2) 362S350-97

4. **Studs (typ.) per Plan**: Full Height Jamb for Header, Sill, Closure Track screws each flange.

5. **Header to Jamb**: Option A (SSMA DESIGNATION)
   - 3 5/8" JAMB STUDS
   - 362S162-33
   - 24" O.C. 362S162-33

6. **Attach Jams to Studs**: (TYP.) per Plan per SCHEDULE above.

7. **Bearing Walls**: Slip Connections at the top track per Details shown above.

8. **Side at Each Clip Angle**
   - 3 5/8" JAMB STUDS
   - 362S162-33
   - 24" O.C. 362S162-33

9. **Attach Jams to Closure**: (TYP.) per SCHEDULE above.

10. **Cold Formed Steel Welded (Plan)**
    - STEEL WELDED (SSMA DESIGNATION)
    - #12 TEK SCREWS AT 16" O.C. MAX TO EXISTING STEEL DECK WITH AT LEAST 2" OF EXISTING DECK ATTACHED CONTINUOUS SLOTTED TRACK WITH 2" TALL AND AT 12" O.C. MAX FOR STUDS BETWEEN 20' AND 10'0" O.C. ALL MOUNTED STUD WALLSshall be connected to the existing steel deck with 2" TALL AND AT 12" O.C. MAX.

11. **Drawing Number**: S002

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   **Stamp**: 01/24/2020